Andalusia, The Graperies
(Nicholas Biddle Estate)
.3 mile south of State Road
Andalusia
Bensalem Township
Bucks County
Pennsylvania

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HISTORICAL AND DESCRIPTIVE DATA
REDUCED COPY OF MEASURED DRAWING

Historic American Buildings Survey
National Park Service
Department of the Interior
Washington, D.C. 20240

Form 10-920 (June 1983)

## UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE



## ARCHITECTURAL DATA FORM

STATE	COUNTY		TOWN OR VICINITY	
PENNSYLVANIA	BUCKS	•	ANDALUSIA	
HISTORIC NAME OF STRUCTURE (INCL		NAME)	ANDABODIA	HABS NO.
AMDALIGEA MAN CRADERTS				
ANDALUSIA, THE GRAPERIES SECONDARY DR COMMON NAMES OF STRUCTURE				IPA-1248-D
525005700000000000000000000000000000000	,,,,,,,,,,,			
COMPLETE ADDRESS (DESCRIBE LOCA	TION FOR RURAL	SITES)		
.3 mile south of State Road				
DATE OF CONSTRUCTION (INCLUDE SO	OURCE)	ARCHITECT(S) (INC.	LUDE SOURCE)	
1834-1836; 1838		Mhomas II Walter (200), 200¢		
SIGNIFICANCE (ARCHITECTURAL AND HISTORICAL, INCL.		Thomas U. Walter (1804-1887)		
The graperies attributed to Th	omas U. Walter	were one of the	e largest greer	nhouse-type
structures of the time probabl	y built in thi	s country. (con	tinued on p. 2	2)
STYLE (IF APPROPRIATE)				
MATERIAL OF CONSTRUCTION (INCLU	IDE STRUCTURAL	SYSTEMSI		
The grapery walls are rubble.	A majority of	the greenhouse p	ortion were wo	ood. The furnace
houses are masonry with tin ro				
SHAPE AND DIMENSIONS DF STRUCTU The grapery walls are 280'-0"				
The Branch Marke and 200				
EXTERIOR FEATURES OF NOTE				
The water tower chimney is br nouses are no longer apparent	ick with a cor	beled belt around	d top. Chimney	s on the furnace
but the marble threshold is s	till in place.	Simple (see p		rapery nouses,
INTERIOR FEATURES OF NOTE (DESCRIPTION)	RIRE ELOOR PLANS	S IE NOT SKETCHEDI		
INTERIOR FEATORES OF NOTE IDESCR	TIBL FLOOT FLAN	s, II NOT SKETCHED)		
MAJOR ALTERATIONS AND ADDITION	SWITH DATES			
See Significance statement.				
D-g121cance boasement.				
PRESENT CONDITION AND USE				
The grapery walls are in good	condition. T	he area enclosed	by the graper	ies is now a
boxwood garden.				
OTHER INFORMATION AS APPROPRIA	TE			
SOURCES OF INFORMATION (INCLUDIA	NG LISTING ON NA	TIONAL REGISTER S	TATE REGISTERS	ETC.J
Wainwright, Nicholas B. "Andal	lusia, Country:	seat of the Crais	g Family and o	f Nicholas Biddle
and His Descendants." The Penn	nsylvania Maga:	zine of History a	and Bibliograph	hy (No.1, 1977):
3-69.				
COMPILER, AFFILIATION			DA"	

Martin J. Rosenblum, HABS, 1974; Susan McCown, HABS, editor, 1983

## SIGNIFICANCE (continued from p. 1):

The purpose of the graperies was indoor cultivation of grapes. In 1834 a glazed forcing house (a type of greenhouse) was built at a cost of approximately \$1,980.00. In 1835 and 1836 two huge graperies were built at a cost of \$21,807.00, which was higher than the cost of Walter's 1836-1838 improvements to the main house. Each grapery consisted of a long wall and a furnace, and at one end of the grapery walls were a water tower and a roofed structure. In 1838 an engine house was built to house steam engine, which pumped water up from the river to the water tower. Improvements were also made to the forcing houses in that year.

After Nicholas Biddle's death in 1844, his son, Craig, continued his father's cultivation of grapes. After 1871, the family discontinued that practice, following a storm which severly damaged the graperies. Today the grapery walls, the furnace houses and the ca. 1910 structures remain.

The original water tower was wood, and was burned ca. 1910 and replaced by a stone tower, a coach house and a stable house. The architects for the new structures were Mellor, Meigs and Howe of Philadelphia.

## EXTERIOR FEATURES OF NOTE (continued from p. 1):

vertical board doors with horizontal battens are on each of the furnace houses. Wood shutters match doors on all furnace houses. Furnace house roofs are shed form. Some roofs are covered with standing seam tin; others are covered with slate. Simple single barge board trim is on each furnace house.